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1 Optimizing lock protocols for native XML processing

Michael Haustein, Theo Härder

 April 2008 **Data & Knowledge Engineering**, Volume 65 Issue 1

Publisher: Elsevier Science Publishers B. V.

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Download

Processing XML documents in multi-user database management environment support of typical XML document processing (XDP) interfaces, and concurrent XML data model. In this paper, ...

Keywords: DOM-based XML processing, Fine-grained locking, Lock competition protocols

2 Scalable hierarchical locking for distributed systems

Nirmal Desai, Frank Mueller

 June 2004 **Journal of Parallel and Distributed Computing**, Volume 64 Issue

Publisher: Academic Press, Inc.

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Download

Middleware components are becoming increasingly important as application distributed environments, such as high-end clusters with ever larger number and increasingly large server farms. ...

Keywords: concurrency services, distributed agreement, distributed mutual allocation, distributed transactions, hierarchical locking, large-scale distributed peer-to-peer protocols, scalability

3 Evaluating design alternatives for reliable communication on high-speed

Raoul A. F. Bhoedjang, Kees Verstoep, Tim Bühl, Henri E. Bai, Rutger E. H. H.

 December 2000 **ASPLOS-IX: Proceedings of the ninth international conference on programming languages and operating systems**

 Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (147.96 KB)

 Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 35, Downloads

We systematically evaluate the performance of five implementations of a s interface. Each implementation makes different architectural assumptions . hardware and the capabilities of the ...

Also published in:

December 2000 **SIGARCH Computer Architecture News** Volume 28 Issue 5

December 2000 **SIGOPS Operating Systems Review** Volume 34 Issue 5

4 Scalable performance of the Panasas parallel file system

Brent Welch, Marc Ungangst, Zainul Abbasi, Garth Gibson, Brian Mueller, Jason February 2008 **FAST'08: Proceedings of the 6th USENIX Conference on File an**


Publisher: USENIX Association

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Download


The Panasas file system uses parallel and redundant access to object stora distributed metadata management, consistent client caching, file locking se to provide a scalable, fault ...

5 Towards achieving fairness in the Linux scheduler

 Chee Siang Wong, Ian Tan, Rosalind Deena Kumari, Fun Wey

July 2008 **SIGOPS Operating Systems Review** , Volume 42 Issue 5

Publisher: ACM


Full text available:  Pdf (908.64 KB) Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 567, Download

The Operating System scheduler is designed to allocate the CPU resources Completely Fair Scheduler (CFS) design ensures fairness among tasks in This algorithm ensures ...

Keywords: Linux, completely fair scheduler, fairness, process scheduling

6 Servo: a programming model for many-core computing

 Nicolas Zeg, John Sartori, Rakesh Kumar

May 2008 **SIGARCH Computer Architecture News** , Volume 36 Issue 2

Publisher: ACM

Full text available:  Pdf (511.28 KB) Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 105, Download

Conventional programming models were designed to be used by expert prc scale multiprocessors, distributed computational clusters, or specialized pa therefore, are deemed either too difficult ...

7 OPENET Architecture The

Israel Cidon, Tony Hoiao, Asad Khamisy, Abhay Parekh, Raphael Rom, Moshe December 1995 **OPENET Architecture, The**

Publisher: Sun Microsystems, Inc.

Full text available:  Pdf (195.25 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 4, Downloads (C

ATM networks will soon be moving from the experimental stage of test-bed production networks are deployed and operated. The progress of ATM network lack of a universal, open, and efficient ...

8 [Minuet: rethinking concurrency control in storage area networks](#)

Andrey Ermolinskiy, Daekyeong Moon, Byung-Gon Chun, Scott Shenker

February 2009 **FAST '09**: Proceedings of the 7th conference on File and storage


Publisher: USENIX Association

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Download



Clustered applications in storage area networks (SANs), widely adopted in traditionally relied on distributed locking protocols to coordinate concurrent examine the semantics of traditional ...

9 [The development of the Emerald programming language](#)

 Andrew P. Black, Norman C. Hutchinson, Eric Jul, Henry M. Levy

June 2007 **HOPL III**: Proceedings of the third ACM SIGPLAN conference on

Publisher: ACM  Request Permissions

Full text available:  Mov (54:7 MIN),  Pdf (1.45 MB) Additional Information: [full citation](#), [qu](#)
[oted by](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 208, Download

Emerald is an object-based programming language and system designed at Computer Science at the University of Washington in the early and mid-19 the construction of distributed ...

Keywords: Eden, Emerald, Washington, abstract types, call-by-move, dis- mobility, object-oriented programming, polymorphism, remote object invocation conformity

10 [Solaris MC File System Framework](#)

Yousef A. Khalidi, Viada Matena, Ken Shirriff

October 1996 Solaris MC File System Framework


Publisher: Sun Microsystems, Inc.

Full text available:  Pdf (71.09 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 4, Downloads (C

The Solaris MC cluster operating system contains a new distributed file system applicable for distributed file systems. The file system's object-oriented interface the framework for file system ...

11 [Exploiting distributed version concurrency in a transactional memory cli](#)

 Kaljoian Manassiev, Madalin Mihaliescu, Cristiana Amza

March 2006 **PPoPP '06**: Proceedings of the eleventh ACM SIGPLAN symposium on programming

Publisher: ACM  Request Permissions

Full text available:  Pdf (317.86 KB) Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 92, Downloads

We investigate a transactional memory runtime system providing scaling a serializability on commodity clusters for both distributed scientific applicati introduce a novel page-level ...


Keywords: concurrency control, in-memory, replicated databases, scalability

12 [Active sensor networks](#)

Philip Levis, David Gay, David Culler

May 2005 **NSDI '05: Proceedings of the 2nd conference on Symposium on Operating Systems Principles - Volume 2**, Volume 2

Publisher: USENIX Association


Full text available:  [Pdf \(342.49 KB\)](#)

Additional Information: [full citation](#), [abstract](#),


Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 68, Downloads

We propose using application specific virtual machines (ASVMs) to reprogram ASVMs provide a way for a user to define an application-specific boundary This allows programs to be ...

13 [Performance evaluation of the Orca shared-object system](#)

 Henri E. Bai, Raoul Bhoejiang, Rutger Hofman, Criel Jacobs, Koen Langendoen
February 1998 **Transactions on Computer Systems (TOCS)**, Volume 16 Issue

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(179.39 KB\)](#)


Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 46, Downloads


Orca is a portable, object-based distributed shared memory (DSM) system design choices made in the Orca system and compares Orca with other DS analysis of Orca's coherence protocol ...

Keywords: distributed shared memory, parallel processing, portability

14 [OLTP through the looking glass, and what we found there](#)

 Stavros Harizopoulos, Daniel J. Abadi, Samuel Madden, Michael Stonebraker
June 2008 **SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference on Database Management Systems**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(308.68 KB\)](#)


Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 378, Downloads

Online Transaction Processing (OLTP) databases include a suite of features locking-based concurrency control, support for multi-threading - that were the late 1970's. Advances ...

Keywords: dbms architecture, main memory transaction processing, oltp,

15 [FAB: building distributed enterprise disk arrays from commodity components](#)

 Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence
December 2004 **ASPLOS-XI: Proceedings of the 11th international conference on Architectural Support for Programming Languages and Operating Systems**

programming languages and operating systems

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (671.67 KB)

Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 90, Downloads

This paper describes the design, implementation, and evaluation of a Fedex disk array that provides the reliability of traditional enterprise arrays with 1 built from a ...

Keywords: consensus, disk array, erasure coding, replication, storage, vo

Also published in:

November 2004 **SIGPLAN Notices**


Volume 39 Issue 11

December 2004 **SIGOPS Operating Systems Review**

Volume 38 Issue 5


December 2004 **SIGARCH Computer Architecture News** Volume 32 Issue 5

16 [Scheduler-conscious synchronization](#)

 Leonidas J. Kontothanassis, Robert W. Wisniewski, Michael L. Scott

February 1997 **Transactions on Computer Systems (TOCS)** , Volume 15 Issue

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (682.20 KB)

Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 64, Downloads

Efficient synchronization is important for achieving good performance in parallel scale multiprocessors. Most synchronization algorithms have been designed for one application process per ...


Keywords: barriers, busy-waiting, kernel-user interaction, locks, mutual exclusion scheduling, synchronization

17 [The Chubby lock service for loosely-coupled distributed systems](#)

Mike Burrows

November 2006 **OSDI '06: Proceedings of the 7th symposium on Operating systems**

Publisher: USENIX Association


Full text available:  Pdf (201.57 KB)

Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 112, Downloads

We describe our experiences with the Chubby lock service, which is intended to be as well as reliable (though low-volume) storage for a loosely-coupled distributed interface much like a distributed ...

18 [Proceedings of the 2008 ACM symposium on Applied computing](#)

 Roger L. Wainwright, Hisham M. Haddad

March 2008 **SAC '08: Proceedings of the 2008 ACM symposium on Applied computing**

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads

Welcome to the 23rd Annual ACM Symposium on Applied Computing (SAC) dedicated to computer scientists, engineers, and practitioners seeking innovative computer applications. This year, the conference ...

19 Architecture of a Database System

Joseph M. Hellerstein, Michael Stonebraker, James Hamilton
February 2007 **Foundations and Trends in Databases**, Volume 1 Issue 2


Publisher: Now Publishers Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads

Database Management Systems (DBMSs) are a ubiquitous and critical component of modern computing systems. The result of decades of research and development in both academia and industry, DBMSs are the earliest multi-user server systems ...

20 Optimistic concurrency for clusters via speculative locking

 Michael Factor, Assaf Schuster, Konstantin Shagin, Tal Zemer
May 2009 **SYSTOR '09: Proceedings of SYSTOR 2009: The Israeli Experiment**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (538.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 41, Downloads

Transactional memory and speculative locking are optimistic concurrency control techniques that enable highly concurrent execution while reducing the programming effort. This paper compares both methods: optimistically ...

Keywords: distributed computing, optimistic concurrency control

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